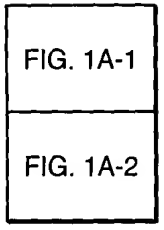

FIG. 1A

```
gtatttcata aaacagagag gatcgcagga ggccggcact ctgactcctg gtggatggga ctagggagtc agagtcaagc cctgactggc tgagggcggg cgctccgagt cagcATGGAA   120
                                                                                                                          M  E
AGTCTCTGCG GGGTCCTGGT ATTTCTGCTG CTGGCTGCAG GACTGCCGCT CCAGGCGGCC AAGCGGTTCC GTGATGTGCT GGGCCATGAG CAGTATCCGG ATCACATGAG GGAGAACAAC   240
S  L  C  G  V  L  V  F  L  L  L  A  A  G  L  P  L  Q  A  A  K  R  F  R  D  V  L  G  H  E  Q  Y  P  D  H  M  R  E  N  N
CAATTACGTG GCTGGTCTTC AGATGAAAAT GAATGGGATG AACAGCTGTA TCCAGTGTGG AGGAGGGGAG AGGGCAGATG GAAGGACTCC TGGGAAGGAG GCCGTGTGCA GGCAGCCCTA   360
Q  L  A  G  W  S  S  D  E  N  E  W  D  E  Q  L  Y  P  V  W  A  A  G  E  G  A  W  K  D  S  W  E  G  G  R  V  Q  A  A  L
ACCAGTGATT CACCGGCCTT GGTGGGTTCC AATATCACCT TCGTAGTGAA CCTGGTGTTC CCCAGATGCC AGAAGGAAGA TGCCAACGGC AATATCGTCT ATGAGAGGAA CTGCAGAAGT   480
T  S  D  S  P  A  L  V  G  S  N  I  T  F  V  V  N  L  V  F  P  A  C  Q  K  E  D  A  N  G  N  I  V  Y  E  A  N  C  A  S
GATTTGGAGC TGGCTTCTGA CCCGTATGTC TACAACTGGA CCACAGGGGC AGACGATGAG GACTGGGAAG ACAACACCAG CCAAGGCCAG CACCTCAGGT TCCCCGACGG GAAGCCCTTC   600
D  L  E  L  A  S  D  P  Y  V  Y  N  W  T  T  G  A  D  D  E  D  W  E  D  N  T  S  Q  G  Q  H  L  A  F  P  D  G  K  P  F
CCTCGCCCCC ACGGACGGAA GAAATGGAAC TTCGTCTACG TCTTCCACAC ACTTGGTCAG TATTTTCAAA AGCTGGGTCA GTGTTCAGCA CGAGTTTCTA TAAACACAGT CAACTTGACA   720
P  R  P  H  G  R  K  K  W  N  F  V  Y  V  F  H  T  L  G  Q  Y  F  Q  K  L  G  Q  C  S  A  R  V  S  I  N  T  V  N  L  T
GTTGGCCCTC AGGTCATGGA AGTGATTGTC TTTCGAAGAC ACGGCCGGGC ATACATTCCC ATCTCCAAAG TGAAAGACGT GTATGTGATA ACAGATCAGA TCCCTATATT CGTGACCATG   840
V  G  P  Q  V  M  E  V  I  V  F  A  R  H  G  A  A  Y  I  P  I  S  K  V  K  D  V  Y  V  I  T  D  Q  I  P  I  F  V  T  M
TACCAGAAGA ATGACCGGAA CTCGTCTGAT GAAACCTTCC TCAGAGACCT CCCCATTTTC TTCGATGTCC TCATTCACGA TCCCAGTCAT TTCCTCAACT ACTCTGCCAT TTCCTACAAG   960
Y  Q  K  N  D  R  N  S  S  D  E  T  F  L  R  D  L  P  I  F  F  D  V  L  I  H  D  P  S  H  F  L  N  Y  S  A  I  S  Y  K
```

FIG. 1A-1

```
TGGAACTTTG GGGACAACAC TGGCCTGTTT GTCTCCAACA ATCACACTTT GAATCACACG TATGTGCTCA ATGGAACCTT CAACTTTAAC CTCACCGTGC AAACTGCAGT GCCGGGACCA  1080
W N F G D N T G L F V S N N H T L N H T Y V L N G T F N F N L T V Q T A V P G P

TGCCCCTCAC CCACACCTTC GCCTTCTTCT TCGACTTCTC CTTCGCCTGC ATCTTCGCCT TCACCCACAT TATCAACACC TAGTCCCTCT TTAATGCCTA CTGGCTACAA ATCCATGGAG  1200
C P S P T P S P S S S T S P S P A S S P S P T L S T P S P S L N P T G Y K S N E

CTGAGTGACA TTTCCAATGA AAACTGCCGA ATAAACAGAT ATGGTTACTT CAGAGCCACC ATCACAATTG TAGATGGAAT CCTAGAAGTC AACATCATCC AGGTAGCAGA TGTCCCAATC  1320
L S D I S N E N C R I N R Y G Y F A A T I T I V D G I L E V N I I Q V A D V P I

CCCACACTGC AGCCTGACAA CTCACTGATG GACTTCATTG TGACCTGCAA AGGGGCCACT CCCACGGAAG CCTGTACGAT CATCTCTGAC CCCACCTGCC AGATCGCCCA GAACAGGGTG  1440
P T L Q P D N S L N D F I V T C K G A T P T E A C T I I S D P T C Q I A Q N A V

TGCAGCCCGG TGGCTGTGGA TGAGCTGTGC CTCCTGTCCG TGAGGAGAGC CTTCAATGGG TCCGGCACGT ACTGTGTGAA TTTCACTCTG GGAGACGATG CAAGCCTGGC CCTCACCAGC  1560
C S P V A V D E L C L L S V R R A F N G S G T Y C V N F T L G D D A S L A L T S

GCCCTGATCT CTATCCCTGG CAAAGACCTA GGCTCCCCTC TGAGAACAGT GAATGGTGTC CTGATCTCCA TTGGCTGCCT GGCCATGTTT GTCACCATGG TTACCATCTT GCTGTACAAA  1680
A L I S I P G K D L G S P L A T V N G V L I S I G C L A N F V T N V T I L L Y K

AAACACAAGA CGTACAAGCC AATAGGAAAC TGCACCAGGA ACGTGGTCAA GGGCAAAGGC CTGAGTGTTT TTCTCAGCCA TGCAAAAGCC CCGTTCTCCC GAGGAGACCG GGAGAAGGAT  1800
K H K T Y K P I G N C T R N V V K G K G L S V F L S H A K A P F S R G D A E K D

CCACTGCTCC AGGACAAGCC ATGGATGCTC TAAgtcttca ctctcactic tgactgggaa cccactcttc tgtgcatgta tgtgagctgt gcagaagtac atgactggta gctgttgttt  1920
P L L Q D K P V M L .

tctacggatt attgtaaaat gtatatcatg gtttagggag tgtagttaat tggcatttta gtgaagggat gggaagacag tattcttcg catctgtatt gtggttttta tactgttaat  2040

agggtgggca cattgtgtct gaaggggtag ggggaggtca ctgctactta aggtcctagg ttaactggga gaggatgccc caggctcctt agattttctac acaagatgtg cctgaaccca  2160

gctagtcctg acctaaaggc catgcttcat caactctatc tcagctcatt gaacatacct gagcgcctga tggaattata atggaaccaa gcttgttgta tggtgtgtgt gtgtacataa  2280

gatactcatt aaaaagacag tctattaaaa aaaaaaaaaa  2320
```

FIG. 1A-2

EXON	BAC Start	BAC Stop	cDNA Start	cDNA Stop	Exon Length
1	83294	83455	1	162	162
2	89834	89986	163	314	152
3	90696	90839	315	458	144
4	93419	93594	459	634	176
5	96509	96665	635	791	157
6	96983	97300	792	1109	318
7	103044	103142	1110	1208	99
8	104413	104515	1209	1311	103
9	106494	106702	1312	1520	209
10	110048	110141	1521	1614	94
11	110592	111633	1615	2656	1042

poly A signal is position 111614-111619

translation start (ATG) is:
cDNA: 92
Gene: 83385

FIG. 1B

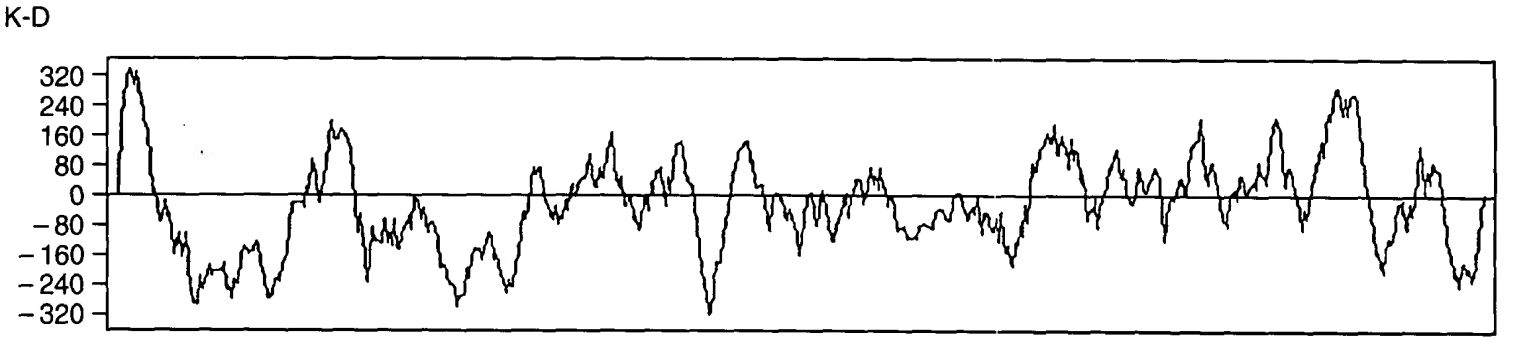

FIG. 1C

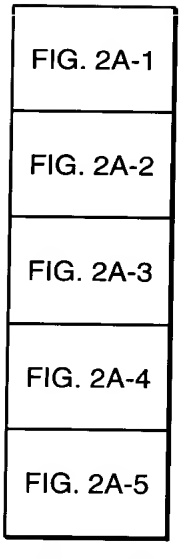

FIG. 2A

```
rat     ATGGAAAGTC TCTGCGGGGT CCTGGTATTT CTGCTGCTGG CTGCAGGACT GCCGCTCCAG GCGGCCAAGC GGTTC     75
mouse   ATGGAAAGTC TCTGCGGGGT CCTGGGATTT CTGCTGCTGG CTGCAGGACT GCCTCTCCAG GCTGCCAAGC GATTT     75
human   ATGGAAAGTC TCTACTATTT CCTGGGATTT CTGCTCCTGG CTGCAAGATT GCCACTTGAT GCCCCCAAAC GATTT     75

rat     CGTGATGTGC TGGGCCATGA GCAGTATCCG GATCACATGA GGGAGAACAA CCAATTACGT GGCTGGTCTT CAGAT     150
mouse   CGTGATGTGC TGGGCCATGA ACAGTATCCC GATCACATGA GAGAGCACAA CCAATTACGT GGCTGGTCTT CGGAT     150
human   CATGATGTGC TGGGCAATGA AAGACCTTCT GCTTACATGA GGGAGCACAA TCAATTAAAT GGCTGGTCTT CTGAT     150

rat     GAAAATGAAT GGGATGAACA GCTGTATCCA GTGTGGAGGA GGGGAGAGGG CAGATGGAAG GACTCCTGGG AAGGA     225
mouse   GAAAATGAAT GGGATGAACA CCTGTATCCA GTGTGGAGGA GGGGAGACGG CAGGTGGAAG GACTCCTGGG AAGGA     225
human   GAAAATGACT GGAATGAAAA ACTCTACCCA GTGTGGAAGC GGGGAGACAT GAGGTGGAAA AACTCCTGGA AGGGA     225

rat     GGCCGTGTGC AGGCAGCCCT AACCAGTGAT TCACCGGCCT TGGTGGGTTC CAATATCACC TTCGTAGTGA ACCTG     300
mouse   GGCCGTGTGC AGGCAGTCCT GACCAGTGAC TCACCGGCTC TGGTGGGTTC CAATATCACT TTTGTGGTGA ACCTG     300
human   GGCCGTGTGC AGGCGGTCCT GACCAGTGAC TCACCAGCCC TCGTGGGCTC AAATATAACA TTTGCGGTGA ACCTG     300
```

FIG. 2A-1

```
rat    GTGTTCCCCA GATGCCAGAA GGAAGATGCC AACGGCAATA TCGTCTATGA GAGGAACTGC AGAAGTGATT TGGAG    375
mouse  GTGTTCCCCA GATGCCAGAA GGAAGATGCT AATGGCAATA TCGTCTATGA GAAGAACTGC AGGAATGATT TGGGA    375
human  ATATTCCCTA GATGCCAAAA GGAAGATGCC AATGGCAACA TAGTCTATGA GAAGAACTGC AGAAATGAGG CTGGT    375

rat    CTGGCTTCTG ACCCGTATGT CTACAACTGG ACCACAGGGG CAGACGATGA GGACTGGGAA GACAACACCA GCCAA    450
mouse  CTGACATCTG ACCTGCATGT CTACAACTGG ACTGCAGGGG CAGATGATGG TGACTGGGAA GATGGCACCA GCCGA    450
human  TTATCTGCTG ATCCATATGT TTACAACTGG ACAGCATGGT CAGAGGACAG TGACGGGGAA AATGGCACCG GCCAA    450

rat    GGCCAGCACC TCAGGTTCCC CGACGGGAAG CCCTTCCCTC GCCCCCACGG ACGGAAGAAA TGGAACTTCG TCTAC    525
mouse  AGCCAGCATC TCAGGTTCCC GGACAGGAGG CCCTTCCCTC GCCCCCATGG ATGGAAGAAA TGGAGCTTTG TCTAC    525
human  AGCCATCATA ACGTCTTCCC TGATGGGAAA CCTTTTCCTC ACCACCCCGG ATGGAGAAGA TGGAATTTCA TCTAC    525

rat    GTCTTCCACA CACTTGGTCA GTATTTTCAA AAGCTGGGTC AGTGTTCAGC ACGAGTTTCT ATAAACACAG TCAAC    600
mouse  GTCTTTCACA CACTTGGCCA GTATTTCCAA AAACTGGGTC GGTGTTCAGC ACGGGTTTCT ATAAACACAG TCAAC    600
human  GTCTTCCACA CACTTGGTCA GTATTTCCAG AAATTGGGAC GATGTTCAGT GAGAGTTTCT GTGAACACAG CCAAT    600

rat    TTGACAGTTG GCCCTCAGGT CATGGAAGTG ATTGTCTTTC GAAGACACGG CCGGGCATAC ATTCCCATCT CCAAA    675
mouse  TTGACAGCTG GCCCTCAGGT CATGGAAGTG ACTGTCTTTC GAAGATACGG CCGGGCATAC ATTCCCATCT CGAAG    675
human  GTGACACTTG GGCCTCAACT CATGGAAGTG ACTGTCTACA GAAGACATGG ACGGGCATAT GTTCCCATCG CACAA    675
```

FIG. 2A-2

```
rat     GTGAAAGACG TGTATGTGAT AACAGATCAG ATCCCTATAT TCGTGACCAT GTACCAGAAG AATGACCGGA ACTCG    750
mouse   GTGAAAGATG TGTATGTGAT AACAGATCAG ATCCCTGTAT TCGTGACCAT GTCCCAGAAG AATGACAGGA ACTTG    750
human   GTGAAAGATG TGTACGTGGT AACAGATCAG ATTCCTGTGT TTGTGACTAT GTTCCAGAAG AACGATCGAA ATTCA    750

rat     TCTGATGAAA CCTTCCTCAG AGACCTCCCC ATTTTCTTCG ATGTCCTCAT TCACGATCCC AGTCATTTCC TCAAC    825
mouse   TCTGATGAGA TCTTCCTCAG AGACCTCCCC ATCGTCTTCG ATGTCCTCAT TCATGATCCC AGCCACTTCC TCAAC    825
human   TCCGACGAAA CCTTCCTCAA AGATCTCCCC ATTATGTTTG ATGTCCTGAT TCATGATCCT AGCCACTTCC TCAAT    825

rat     TACTCTGCCA TTTCCTACAA GTGGAACTTT GGGGACAACA CTGGCCTGTT TGTCTCCAAC AATCACACTT TGAAT    900
mouse   GACTCTGCCA TTTCCTACAA GTGGAACTTT GGGGACAACA CTGGCCTGTT TGTCTCCAAC AATCACACTT TGAAT    900
human   TATTCTACCA TTAACTACAA GTGGAGCTTC GGGGATAATA CTGGCCTGTT TGTTTCCACC AATCATACTG TGAAT    900

rat     CACACGTATG TGCTCAATGG AACCTTCAAC TTTAACCTCA CCGTGCAAAC TGCAGTGCCG GG-------- -ACCA    966
mouse   CACACTTATG TGCTCAATGG AACCTTCAAC CTTAACCTCA CCGTGCAAAC TGCAGTGCCC GG-------- -GCCA    966
human   CACACGTATG TGCTCAATGG AACCTTCAGC CTTAACCTCA CTGTGAAAGC TGCAGCACCA GGACCTTGTC CGCCA    975

rat     -TGCC-CC-T CACCCACACC TTCGCCTTCT TCTTCGACTT CTCCTTC--- ---GCCTGCA TCTTCGCCTT CA---    1029
mouse   -TGCC-C--T --CCC---CC TTCGCCTTCG ACTCCGCCTT CACCTTCAAC TCCGCCCTTA CCTTCGCCCT CACCT    1032
human   CCGCCACCAC CACCCAGACC TTC------- ---------- -------AA- ---------A ---------- -ACC-    1004
```

FIG. 2A-3

```
rat    ---CCCACAT TATCAACACC TAGTCCCTCT TTAATGCCTA CTGGCTACAA ATCCATGGAG CTGAGTGACA TTTCC    1101
mouse  TTGCCCACAT TATCAACACC TAGCCCCTCT TTAATGCCTA CTGGTTACAA ATCCATGGAG CTGAGTGACA TTTCC    1107
human  ---------- ------CACC ----CCTTCT TTAGGACCTG CTGGTGACAA CCCCCTGGAG CTGAGTAGGA TTCCT    1059

rat    AATGAAAACT GCCGAATAAA CAGATAAGGT TACTTCAGAG CCACCATCAC AATTGTAGAT GGAATCCTAG AAGTC    1176
mouse  AATGAAAACT GCCGAATAAA CAGATAAGGC TACTTCAGAG CCACCATCAC AATTGTAGAG GGGATCCTGG AAGTC    1182
human  GATGAAAACT GCCAGATTAA CAGATAAGGC TACTTTCAAG CCACCATCAC AATTGTAGAG GGAATCTTAG AGGTT    1134

rat    AACATCATCC AGGTAGCAGA TGTCCCAATC CCCACACTGC AGCCTGACAA CTCACTGATG GACTTCATTG TGACC    1251
mouse  AGCATCATGC AGATAGCAGA TGTCCCCATG CCCACACCGC AGCCTGCCAA CTCCCTGATG GACTTCACTG TGACC    1257
human  AACATCATCC AGATGACAGA CGTCCTGATG CCGGTGCCAT GGCCTGAAAG CTCCCTAATA GACTTTGTCG TGACC    1209

rat    TGCAAAGGGG CCACTCCCAC GGAAGCCTGT ACGATCATCT CTGACCCCAC CTGCCAGATC GCCCAGAACA GGGTG    1326
mouse  TGCAAAGGGG CCACCCCCAT GGAAGCCTGT ACGATCATCT CCGACCCCAC CTGCCAGATC GCCCAGAACC GGGTC    1332
human  TGCCAAGGGA GCATTCCCAC GGAGGTCTGT ACCATCATTT CTGACCCCAC CTGCGAGATC ACCCAGAACA CAGTC    1284

rat    TGCAGCCCGG TGGCTGTGGA TGAGCTGTGC CTCCTGTCCG TGAGGAGAGC CTTCAATGGG TCCGGCACGT ACTGT    1401
mouse  TGCAGCCCTG TGGCTGTGGA TGGGCTGTGC CTGCTGTCTG TGAGAAGAGC CTTCAATGGG TCTGGCACCT ACTGT    1407
human  TGCAGCCCTG TGGATGTGGA TGAGATGTGT CTGCTGACTG TGAGACGAAC CTTCAATGGG TCTGGGACGT ACTGT    1359
```

FIG. 2A-4

```
rat    GTGAATTTCA CTCTGGGAGA CGATGCAAGC CTGGCCCTCA CCAGCGCCCT GATCTCTATC CCTGGCAAAG ACCTA    1476
mouse  GTGAATTTCA CTCTGGGAGA TGATGCAAGC CTGGCCCTCA CCAGCACCCT GATCTCTATC CCTGGCAAAG ACCCA    1482
human  GTGAACCTCA CCCTGGGGGA TGACACAAGC CTGGCTCTCA CGAGCACCCT GATTTCTGTT CCTGACAGAG ACCCA    1434

rat    GGCTCCCCTC TGAGAACAGT GAATGGTGTC CTGATCTCCA TTGGCTGCCT GGCCATGTTT GTCACCATGG TTACC    1551
mouse  GACTCCCCTC TGAGAGCAGT GAATGGTGTC CTGATCTCCA TCGGCTGCCT GGCTGTGCTT GTCACCATGG TTACC    1557
human  GCCTCGCCTT TAAGGATGGC AAACAGTGCC CTGATCTCCG TTGGCTGCTT GGCCATATTT GTCACTGTGA TCTCC    1509

rat    ATCTTGCTGT ACAAAAAACA CAAGACGTAC AAGCCAATAG GAAACTGCAC CAGGAACGTG GTCAAGGGCA AAGGC    1626
mouse  ATCTTGCTGT ACAAAAAACA CAAGGCGTAC AAGCCAATAG GAAACTGCCC CAGGAACACG GTCAAGGGCA AGGGC    1632
human  CTCTTGGTGT ACAAAAAACA CAAGGAATAC AACCCAATAG AAAATAGTCC TGGGAATGTG GTCAGAAGCA AAGGC    1584

rat    CTGAGTGTTT TTCTCAGCCA TGCAAAAGCC CCGTTCTCCC GAGGAGACCG GGAGAAGGAT CCACTGCTCC AGGAC    1701
mouse  CTGAGTGTTC TCCTCAGTCA CGCGAAAGCC CCGTTCTTCC GAGGAGACCA GGAGAAGGAT CCATTGCTCC AGGAC    1707
human  CTGAGTGTCT TTCTCAACCG TGCAAAAGCC GTGTTCTTCC CGGGAAACCA GGAAAAGGAT CCGCTACTC- ---AA    1655

rat    AAGCCATGGA TGCTCTAA-- ---------- -      1719
mouse  AAGCCAAGGA CACTCTAA-- ---------- -      1725
human  AAACCAAGAA ---TTTAAAG GAGTTTCTTA A      1683
```

FIG. 2A-5

```
rat    MESLCGVLVF LLLAAGLPLQ AAKRFRDVLG HEQYPDHMRE NNQLRGWSSD  50
mouse  MESLCGVLGF LLLAAGLPLQ AAKRFRDVLG HEQYPDHMRE HNQLRGWSSD  50
human  MECLYYFLGF LLLAARLPLD AAKRFHDVLG NERPSAYMRE HNQLNGWSSD  50

rat    ENEWDEQLYP VWRRGEGRWK DSWEGGRVQA ALTSDSPALV GSNITFVVNL 100
mouse  ENEWDEHLYP VWRRGDGRWK DSWEGGRVQA VLTSDSPALV GSNITFVVNL 100
human  ENDWNEKLYP VWKRGDMRWK NSWKGGRVQA VLTSDSPALV GSNITFAVNL 100

rat    VFPRCQKEDA NGNIVYERNC RSDLELASDP YVYNWTTGAD DEDWEDNTSQ 150
mouse  VFPRCQKEDA NGNIVYEKNC RNDLGLTSDL HVYNWTAGAD DGDWEDGTSR 150
human  IFPRCQKEDA NGNIVYEKNC RNEAGLSADP YVYNWTAWSE DSDGENGTGQ 150

rat    GQHLRFPDGK PFPRPHGRKK WNFVYVFHTL GQYFQKLGQC SARVSINTVN 200
mouse  SQHLRFPDRR PFPRPHGWKK WSFVYVFHTL GQYFQKLGRC SARVSINTVN 200
human  SHHNVFPDGK PFPHHPGWRR WNFIYVFHTL GQYFQKLGRC SVRVSVNTAN 200

rat    LTVGPQVMEV IVFRRHGRAY IPISKVKDVY VITDQIPIFV TMYQKNDRNS 250
mouse  LTAGPQVMEV TVFRRYGRAY IPISKVKDVY VITDQIPVFV TMSQKNDRNL 250
human  VTLGPQLMEV TVYRRHGRAY VPIAQVKDVY VVTDQIPVFV TMFQKNDRNS 250

rat    SDETFLRDLP IFFDVLIHDP SHFLNYSAIS YKWNFGDNTG LFVSNNHTLN 300
mouse  SDEIFLRDLP IVFDVLIHDP SHFLNDSAIS YKWNFGDNTG LFVSNNHTLN 300
human  SDETFLKDLP IMFDVLIHDP SHFLNYSTIN YKWSFGDNTG LFVSTNHTVN 300
```

FIG. 2B-1

FIG. 2B-1
FIG. 2B-2

FIG. 2B

```
rat    HTYVLNGTFN FNLTVQTAVP GPCPSPTPS- -PSSSTSPSP ASSPSPTLST  348
mouse  HTYVLNGTFN LNLTVQTAVP GPCPPPSPST PPSPSTPPLP SPSPLPTLST  350
human  HTYVLNGTFS LNLTVKAAAP GPCPPPPP-- ------PPRP --------SK  334

rat    PSPSLMPTGY KSMELSDISN ENCRINRYGY FRATITIVDG ILEVNIIQVA  398
mouse  PSPSLMPTGY KSMELSDISN ENCRINRYGY FRATITIVEG ILEVSIMQIA  400
human  PTPSLGPAGD NPLELSRIPD ENCQINRYGH FQATITIVEG ILEVNIIQMT  384

rat    DVPIPTLQPD NSLMDFIVTC KGATPTEACT IISDPTCQIA QNRVCSPVAV  448
mouse  DVPMPTPQPA NSLMDFTVTC KGATPMEACT IISDPTCQIA QNRVCSPVAV  450
human  DVLMPVPWPE SSLIDFVVTC QGSIPTEVCT IISDPTCEIT QNTVCSPVDV  434

rat    DELCLLSVRR AFNGSGTYCV NFTLGDDASL ALTSALISIP GKDLGSPLRT  498
mouse  DGLCLLSVRR AFNGSGTYCV NFTLGDDASL ALTSTLISIP GKDPDSPLRA  500
human  DEMCLLTVRR TFNGSGTYCV NLTLGDDTSL ALTSTLISVP DRDPASPLRM  484

rat    VNGVLISIGC LAMFVTMVTI LLYKKHKTYK PIGNCTRNVV KGKGLSVFLS  548
mouse  VNGVLISIGC LAVLVTMVTI LLYKKHKAYK PIGNCPRNTV KGKGLSVLLS  550
human  ANSALISVGC LAIFVTVISL LVYKKHKEYN PIENSPGNVV RSKGLSVFLN  534

rat    HAKAPFSRGD REKDPLLQDK PW--ML  572
mouse  HAKAPFFRGD QEKDPLLQDK PR--TL  574
human  RAKAVFFPGN QEKDPLLKNQ EFKGVS  560
```

FIG. 2B-2

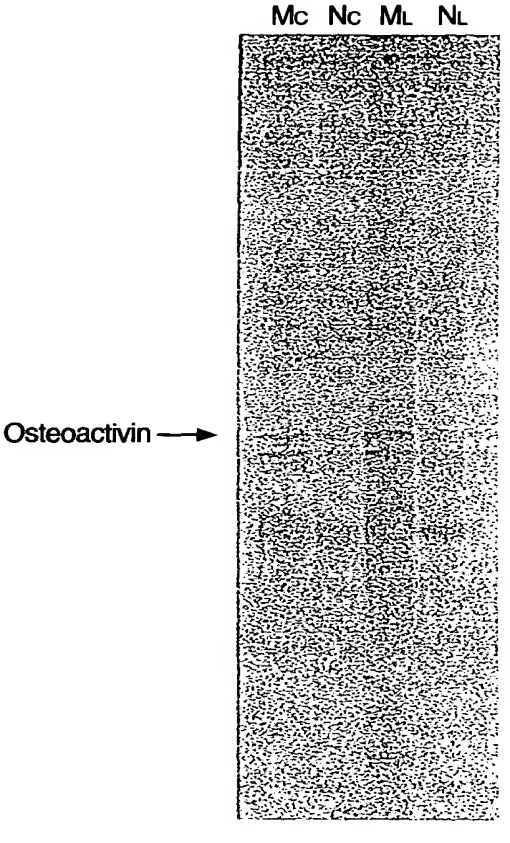

FIG. 3

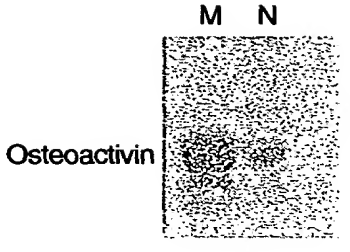

FIG. 4A

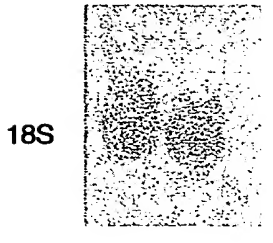

FIG. 4B

FIG. 5

FIG. 5A

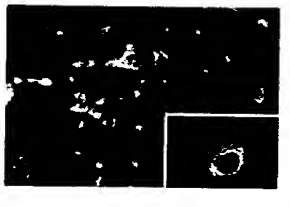

FIG. 5B

FIG. 5C

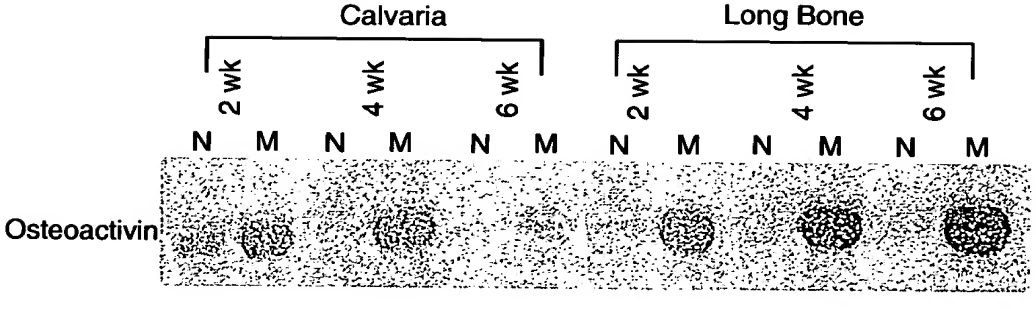
Calvaria
Long Bone
2 wk
4 wk
6 wk
2 wk
4 wk
6 wk
N M N M N M N M N M N M
Osteoactivin

FIG. 6

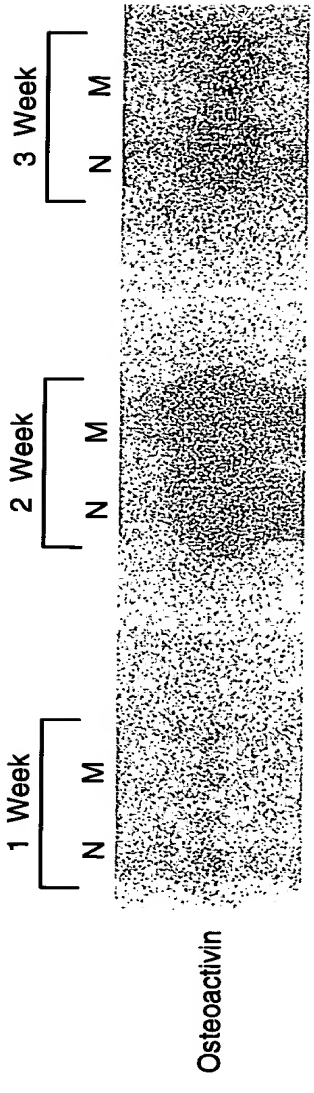
1 Week
N M
2 Week
N M
3 Week
N M
Osteoactivin

FIG. 7A

1 Week
N M
2 Week
N M
3 Week
N M
18S

FIG. 7B

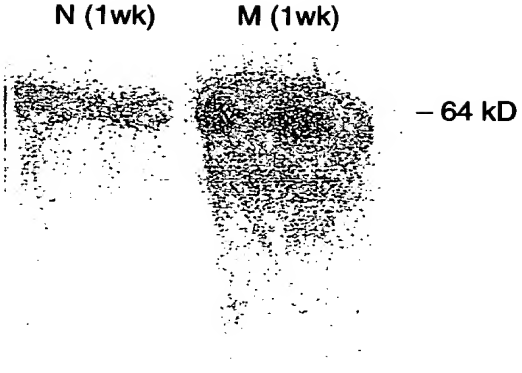

FIG. 8

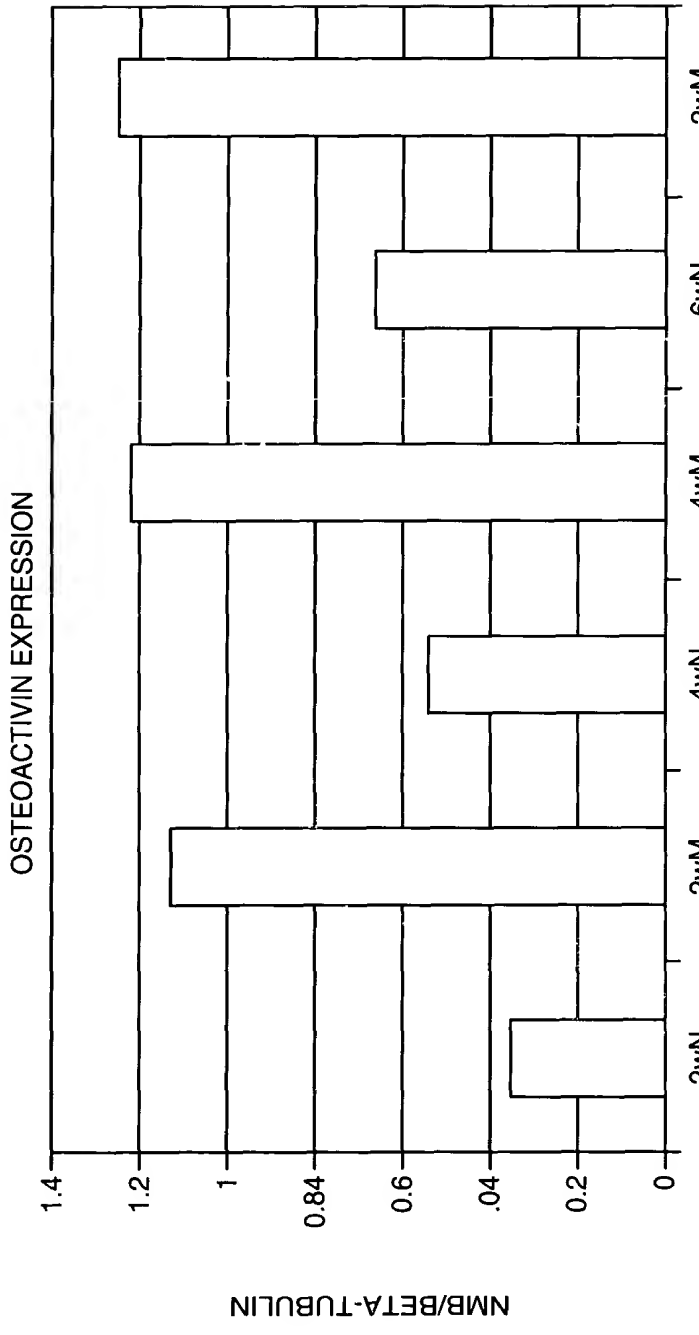
OSTEOACTIVIN EXPRESSION
NMB/BETA-TUBULIN
1.4
1.2
1
0.84
0.6
.04
0.2
0
2wN
2wM
4wN
4wM
6wN
2wM
LONG BONE

FIG. 9

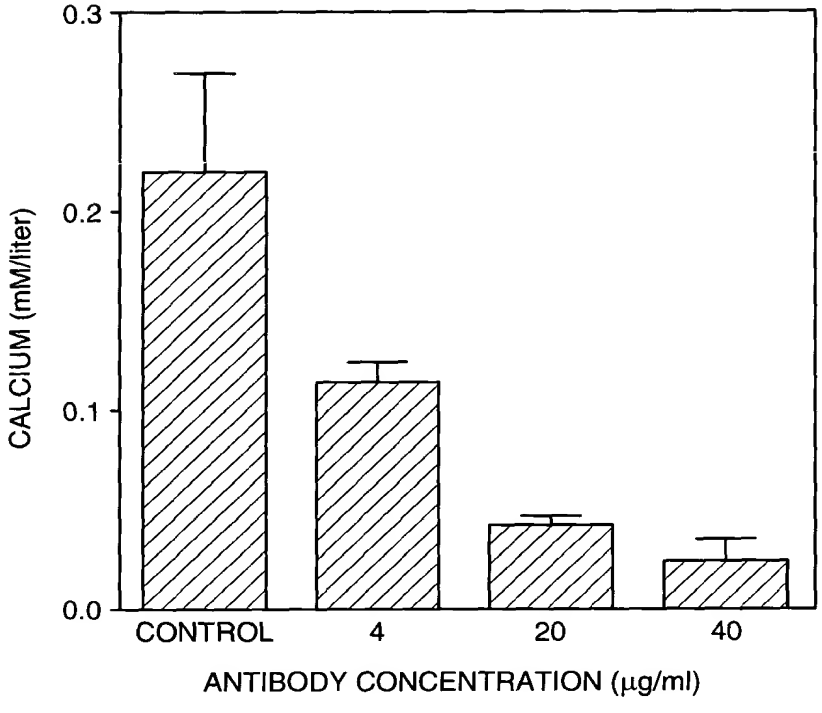
0.3
0.2
0.1
0.0
CALCIUM (mM/liter)
CONTROL
4
20
40
ANTIBODY CONCENTRATION (µg/ml)

FIG. 10